Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (currently amended) A mass/solution polymerization process utilizing a functionalized rubber to produce a rubber modified polymer from a vinyl aromatic monomer comprising polymerizing the vinyl aromatic monomer in the presence of a rubber, wherein the rubber comprises a functionalized diene rubber having:
 - a) a solution viscosity of <u>from 5 to less</u> than 50 centipoise (cps), and
 b) at least one functional group per rubber molecule which enables controlled radical polymerization;

such that grafted rubber particles are formed and dispersed within a matrix comprising polymerized vinyl aromatic monomer and have a broad monomodal size distribution.

- 2. (original) The process of Claim 1 wherein the vinyl aromatic monomer is styrene.
- 3. (original) The process of Claim 1 wherein the vinyl aromatic monomer is copolymerized with acrylonitrile.
- 4. (original) The process of Claim 1 wherein the functionalized diene rubber is a styrene/butadiene block copolymer rubber.
- 5. (original) The process of Claim 1 wherein the functionalized diene rubber has a solution viscosity of 5 weight percent in styrene at 20°C of less than 45 cps.
- 6. (original) The process of Claim 1 wherein the functionalized diene rubber contains a functional group capable of forming a stable free radical.
- 7. (original) The process of Claim 6 wherein the functionalized diene rubber contains a nitroxide functional group.
- 8. (original) The process of Claim 6 wherein the functionalized diene rubber contains a functional group selected from 2,2,6,6,-tetramethyl-1-piperidinyloxy (TEMPO); 2,2,6,6-tetramethyl-1-[1-[4-(oxiranylmethoxy)phenyl]ethoxy]-piperidine; or 3,3,8,8,10,10-hexamethyl-9-[1-[4-(oxiranylmethoxy)phenyl]ethoxy]-1,5-dioxa-9-azaspiro[5.5]undecane.

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- 9. (original) The process of Claim 1 wherein the functionalized diene rubber contains a functional group capable of atom transfer radical polymerization.
- 10. (original) The process of Claim 1 wherein the functionalized diene rubber contains a functional group capable of reversible addition-fragmentation chain transfer polymerization.
- 11. (original) The process of Claim 1 wherein the polymerization is conducted in the presence of a chain transfer agent.
- 12. (original) The process of claim 1 wherein the polymerization is conducted in the presence of an initiator.
- 13. (original) The process of claim 1 wherein the polymerization is conduction in the presence of an initiator and a chain transfer agent.
 - 14. Canceled.
 - 15. Canceled.
 - 16. Canceled.
- 17. (original) The process of claim 1 wherein a portion of a partially polymerized feed is recirculated to an earlier polymerization stage.
- 18. (original) The rubber modified polymer produced by the process of Claim 1.
- 19. (original) An article or composition comprising the rubber modified polymer of Claim 18.

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